

Frederick B Davies

List of Publications by Year in descending order

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58
papers

3,922
citations

136740

32
h-index

138251

58
g-index

59
all docs

59
docs citations

59
times ranked

2668
citing authors

#	ARTICLE	IF	CITATIONS
1	He II Ly α Transmission Spikes and Absorption Troughs in Eight High-resolution Spectra Probing the End of He II Reionization. <i>Astrophysical Journal</i> , 2022, 927, 175.	1.6	0
2	IGM damping wing constraints on reionization from covariance reconstruction of two $z \approx 7$ QSOs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 5390-5403.	1.6	30
3	Hydrogen reionization ends by $z = 5.3$: Lyman- α optical depth measured by the XQR-30 sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 55-76.	1.6	82
4	Improved treatments of the ionizing photon mean free path in seminumerical simulations of reionization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 1302-1314.	1.6	6
5	Staring at the Shadows of Archaic Galaxies: Damped Ly α and Metal Absorbers Toward a Young $z \approx 6$ Weak-line Quasar. <i>Astronomical Journal</i> , 2022, 163, 251.	1.9	6
6	Long Dark Gaps in the Ly α Forest at $z < 6$: Evidence of Ultra-late Reionization from XQR-30 Spectra. <i>Astrophysical Journal</i> , 2022, 932, 76.	1.6	28
7	Measuring the thermal and ionization state of the low- z IGM using likelihood free inference. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 2188-2207.	1.6	2
8	A Luminous Quasar at Redshift 7.642. <i>Astrophysical Journal Letters</i> , 2021, 907, L1.	3.0	237
9	Revealing the Accretion Physics of Supermassive Black Holes at Redshift $z \approx 7$ with Chandra and Infrared Observations. <i>Astrophysical Journal</i> , 2021, 908, 53.	1.6	35
10	A comparison of quasar emission reconstruction techniques for $z \approx 5.0$ Lyman- α and Lyman- β transmission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 2077-2096.	1.6	21
11	The Discovery of a Highly Accreting, Radio-loud Quasar at $z = 6.82$. <i>Astrophysical Journal</i> , 2021, 909, 80.	1.6	55
12	New Evidence for Extended He II Reionization at $z \approx 3.5$ from He II Lyman Alpha and Beta Transmission Spikes*. <i>Astrophysical Journal</i> , 2021, 912, 38.	1.6	12
13	The first measurement of the quasar lifetime distribution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 649-662.	1.6	23
14	Probing reionization and early cosmic enrichment with the Mg forest. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 2963-2984.	1.6	6
15	Detecting and Characterizing Young Quasars. II. Four Quasars at $z \approx 6$ with Lifetimes $< 10^4$ Yr. <i>Astrophysical Journal</i> , 2021, 917, 38.	1.6	27
16	The Predicament of Absorption-dominated Reionization: Increased Demands on Ionizing Sources. <i>Astrophysical Journal Letters</i> , 2021, 918, L35.	3.0	20
17	Improving IGM temperature constraints using wavelet analysis on high-redshift quasars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 5493-5513.	1.6	5
18	Estimating the Effective Lifetime of the $z \approx 6$ Quasar Population from the Composite Proximity Zone Profile. <i>Astrophysical Journal</i> , 2021, 921, 88.	1.6	16

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19	Chasing the Tail of Cosmic Reionization with Dark Gap Statistics in the Ly \pm Forest over 5 z 6. <i>Astrophysical Journal</i> , 2021, 923, 223.	1.6	39
20	Constraints on the End of Reionization from the Density Fields Surrounding Two Highly Opaque Quasar Sightlines. <i>Astrophysical Journal</i> , 2021, 923, 87.	1.6	17
21	Probing Early Supermassive Black Hole Growth and Quasar Evolution with Near-infrared Spectroscopy of 37 Reionization-era Quasars at 6.3 z 7.64. <i>Astrophysical Journal</i> , 2021, 923, 262.	1.6	76
22	Ionization bias and the ghost proximity effect near $z \approx 6$ quasars in the shadow of proximate absorption systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 2937-2947.	1.6	12
23	Reionization history constraints from neural network based predictions of high-redshift quasar continua. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 4256-4275.	1.6	29
24	Panina: A Luminous $z \approx 7.5$ Quasar Hosting a 1.5 Billion Solar Mass Black Hole. <i>Astrophysical Journal Letters</i> , 2020, 897, L14.	3.0	202
25	A Significantly Neutral Intergalactic Medium Around the Luminous $z \approx 7$ Quasar J0252+0503. <i>Astrophysical Journal</i> , 2020, 896, 23.	1.6	97
26	Time-dependent behaviour of quasar proximity zones at $z \approx 6$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 1330-1343.	1.6	36
27	Pypelt: The Python Spectroscopic Data Reduction Pipeline. <i>Journal of Open Source Software</i> , 2020, 5, 2308.	2.0	128
28	No Redshift Evolution in the Broad-line-region Metallicity up to $z \approx 7.54$: Deep Near-infrared Spectroscopy of ULAS J1342+0928. <i>Astrophysical Journal</i> , 2020, 898, 105.	1.6	38
29	Detecting and Characterizing Young Quasars. I. Systemic Redshifts and Proximity Zone Measurements. <i>Astrophysical Journal</i> , 2020, 900, 37.	1.6	56
30	Measurements of the $z \approx 6$ Intergalactic Medium Optical Depth and Transmission Spikes Using a New $z \approx 6.3$ Quasar Sample. <i>Astrophysical Journal</i> , 2020, 904, 26.	1.6	71
31	The X-SHOOTER/ALMA Sample of Quasars in the Epoch of Reionization. I. NIR Spectral Modeling, Iron Enrichment, and Broad Emission Line Properties. <i>Astrophysical Journal</i> , 2020, 905, 51.	1.6	66
32	Constraining the Gravitational Lensing of $z \approx 6$ Quasars from Their Proximity Zones. <i>Astrophysical Journal Letters</i> , 2020, 904, L32.	3.0	12
33	Exploring Reionization-era Quasars. III. Discovery of 16 Quasars at $6.4 < z < 6.9$ with DESI Legacy Imaging Surveys and the UKIRT Hemisphere Survey and Quasar Luminosity Function at $z \approx 6.7$. <i>Astrophysical Journal</i> , 2019, 884, 30.	1.6	114
34	A Metal-poor Damped Ly \pm System at Redshift 6.4. <i>Astrophysical Journal</i> , 2019, 885, 59.	1.6	38
35	Anomaly in the Opacity of the Post-reionization Intergalactic Medium in the Ly \pm and Ly 2 Forest. <i>Astrophysical Journal</i> , 2019, 881, 23.	1.6	25
36	Heating of the Intergalactic Medium by Hydrogen Reionization. <i>Astrophysical Journal</i> , 2019, 874, 154.	1.6	47

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55	A self-consistent 3D model of fluctuations in the helium-ionizing background. Monthly Notices of the Royal Astronomical Society, 2017, 465, 2886-2894.	1.6	22
56	Quasar ionization front Ly \pm emission in an inhomogeneous intergalactic medium. Monthly Notices of the Royal Astronomical Society, 2016, 457, 3006-3023.	1.6	32
57	Large fluctuations in the hydrogen-ionizing background and mean free path following the epoch of reionization. Monthly Notices of the Royal Astronomical Society, 2016, 460, 1328-1339.	1.6	92
58	The effect of fluctuations on the helium-ionizing background. Monthly Notices of the Royal Astronomical Society, 2014, 437, 1141-1154.	1.6	23